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**(54) METHOD FOR SINTERING ALN**

**(57) Abstract:**

**PURPOSE:** To remarkably shorten sintering time as compared with that of the conventional method and to obtain a dense AlN sintered body by heating an AlN molded body by exposure to plasma.

**CONSTITUTION:** AlN powder or a blend of AlN powder with a sintering aid is molded and this molded body is

heated by exposure to plasma to obtain an AlN sintered body. This sintering is carried out in an atmosphere of one or more among gaseous Ar, N<sub>2</sub>, CO and NH<sub>3</sub> preferably under 10-10<sup>5</sup> Pa pressure. The molded body can be sintered in such a very short time of about 1-10min. Within this time, the temp. of the molded body is raised and drops.

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